

Product Information

MemDX™ Membrane Protein Human KCNN3 (Potassium calcium-activated channel subfamily N member 3) Full Length

Cat. No.: **MPC1047K**

This product is for research use only and is not intended for diagnostic use.

This product is a 81.3 kDa Human KCNN3 membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

KCNN3

Protein Length

Full length

Protein Class

Transporter; Ion channel

Molecular Weight

81.3 kDa

TMD

6

Sequence

MDTSGHFHDSGVGDLDEDPKCPCPSSGDEQQQQQQQQQQQQPPPPAPPAA
PQQPLGPSLQPQPPQLQQQQQQQQQQQQQPPHPLSQLAQLQSQPVHPGL
LHSSPTAFRAPSSNSTAILHPSSRQGSQNLNDHLLGHSPSSTATSGPG
GGSRRHQASPLVHRRDSNPFTEIAMSSCKYSGGVMKPLSRLSASRRNLIE
AETEGQPLQLFSPSNPPEIVISSREDNHAHQTLHHPNATHNHQHAGTTA
SSTTFPKANKRKNQIGYKLGHRRALFEKRKRLSDYALIFGMFGIVVMVI
ETELSWGLYSKDSMFLALKCLISLSTIILLGLIAYHTREVQLFVIDNG
ADDWRIAMTYERILYISLEMLVCAIHPIPGYKFFWTARLAFSYTPSRAE
ADVDIISIPMFLRLYLARVMLLHSLFTDASSRSIGALNKINFNTRFV
MKTLMTICPGTVLLVFSISLWIIAAWTVRVCERYHDQQDVTNFLGAMWL
ISITFLSIGYGDMPHTYCGKGVCLLTGIMGAGCTALVVAVVARKLELTK
AEKHVHNFMMDTQLTKRIKNAANLRETWLIYKHTKLLKKIDHAKVRKH
QRKFLQAIHQRLSVKMEQRKLSQANTLVDLSKMQNVMYDLITELNDRSE
DLEKQIGSLESKLEHLTASFNSLPLLIADTLRQQQQQLLSAIEARGVSV
AVGTTHTPISDSPIGVSSTSFTPTPTSSSSC

Product Description

Expression Systems

HEK293

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

KCNN3

Full Name

Potassium calcium-activated channel subfamily N member 3

Introduction

Action potentials in vertebrate neurons are followed by an afterhyperpolarization (AHP) that may persist for several seconds and may have profound consequences for the firing pattern of the neuron. Each component of the AHP is kinetically distinct and is mediated by different calcium-activated potassium channels. This gene belongs to the KCNN family of potassium channels. It encodes an integral membrane protein that forms a voltage-independent calcium-activated channel, which is thought to regulate neuronal excitability by contributing to the slow component of synaptic AHP. This gene contains two CAG repeat regions in the coding sequence. It was thought that expansion of one or both of these repeats could lead to an increased susceptibility to schizophrenia or bipolar disorder, but studies indicate that this is probably not the case. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

Alternative Names

KCNN3; SK3; ZLS3; hSK3; SKCA3; KCa2.3; small conductance calcium-activated potassium channel protein 3; SKCa 3; potassium channel, calcium activated intermediate/small conductance subfamily N alpha, member 3; potassium intermediate/small conductance calcium-activated channel, subfamily N, member 3; small conductance calcium-activated potassium channel 3; Potassium calcium-activated channel subfamily N member 3

Gene ID

[3782](#)

UniProt ID

[Q9UGI6](#)